The Ritter brand stands for high quality, state of the art technology and innovative products made in Germany. Ritter dental units are the less expensive solution for all necessary devices and instruments, combined with many optional features and interfaces for patient data display.

WELCOME

The German Experts
In 1887, Frank Ritter produced one of the world’s first treatment chairs for the dental profession.

In the 125 years since, Ritter has produced a long line of products that has changed the face of dentistry.

1912 Ritter introduced the “control panel” for the dental instruments, a major advancement and the beginning of modern technology in dentistry.

In 1917 Ritter introduced the integrated treatment system; chair with control panel, drill, cuspidor, saliva ejector, tray table and air/water syringes - all instruments in one unit! This system delivered for the first time the modern dental system, the core concept of which has not changed even today.

Ritter remains one of the leading dental equipment providers, always striving for innovation, excellent product quality and a model line that allows every dentist to enjoy the benefits of owning a “Ritter”.

Online surveys still list “Made in Germany” as a trusted source for quality, performance and reliability for goods available around the world, especially for electronic and technological products.

(source: www.dw-world.com)

Ritter remains a German owned and operated company, with all Ritter products Made in Germany at the modern production facility located in Zwönitz (Saxony, East Germany) and the administration located in Ulm (Baden Württemberg, South Germany)

A dedicated staff of many employees ensure:

**Leading Edge Design** in consultation with leading universities both in Germany and worldwide.

**High Level of Function** through the use of comprehensive control systems for the complete control of all of the unit’s functions.

**Quality Construction** in both the internal components and overall unit construction to ensure years of reliable service and durability.
General view

**HIGH**
- Format C plus
- Contact World H/S/C
- NEW UNIT
- Ritter Instruments
- Ritter Implants
- Autoclave CleanTec Class B/S
- Compressors and Suction

**MEDIUM**
- ContactLite / Lite Comfort H/S/C
- NEW UNIT
- NEW UNIT
- XRAY Syrius
- XRAY Leadex 70
- Autoclave PureTec II
- Dental Cabinets
- Compressors and Suction
- ULTRAPerformance A
- ULTRAPerformance E
- Autoclave CleanTec 80L

**BASIC**
- EXCELLENCE H/S/C
- SUPERIOR H/S/C
- IDS Preview!
- IDS Preview!
- IDS Preview!
- IDS Preview!
- IDS Preview!
- IDS Preview!

**PRICE EFFICIENCY**
Contact World

Maintaining the conceptual design and quality of the Contact series, in a treatment unit designed for a practice that wants the benefits of leading edge design, with a simplified instrument control system that maintains a high level of functionality.

Contact World systems are the perfect mixture of simplicity with sophistication.

Key Features

Innovative control system with graphical display, multiple user settings and with memory function *

Advanced functions such as programmable speeds and lockout control.

Comprehensive instrumentation - autoclavable syringe nozzles, fiber optic highspeed, fiber optic electric lowspeed line and fiber optic ultrasonic scaler all standard.

Hygienic and disinfectable control surfaces.

Clever 4 pedal foot control system for major unit functions.

*See the Total Control section for more details

<table>
<thead>
<tr>
<th>Ritter StarLite</th>
<th>Ritter PlanetLite</th>
</tr>
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Full multimedia system in a number of configurations

Optional Ritter LED "MoonLite" light

The unique pivot design of the Contact chair eliminates having to reposition the patient
Closely following the Design Concepts of the Contact World system, Ritter’s Contact Lite upholds the high standards of Quality on all Ritter systems, with a simplified design that maintains the advanced functionality of the Contact World.

The Contact Lite system makes it possible for any dental practice to experience the advantages Ritter Contact systems offer.

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Hygienic and disinfectable control surfaces.

Clever 4 pedal foot control system for major unit functions.

*See the Total Control section for more details
**Delivery Models**

**Your Choice**
All Ritter Contact Line models are available in one of four distinct delivery styles to allow the dentist to choose the right version for his or her preferred working method.

**‘H’ System**
**HANGING DELIVERY**

The H model has an integrated extended instrument tray providing for true four handed dentistry. Designed for use in both the sit down or stand up position, the H table positions the handpieces below the tray surface for easy reach and minimal interference.

**‘C’ System**
**CART DELIVERY**

The flexibility of the C system cart allows the operator to position the unit anywhere around the chair, with the benefit of being able to move the cart unit away from the chair when not in use.

C systems can be combined with an over the patient instrument tray swivel arm to provide true four handed dentistry.

**‘S’ System**
**SWINGING DELIVERY**

The swinging S model has a doriot arm for each handpiece, which positions the handpiece directly where your hand needs them, with no need to compensate for the pull of the handpiece hose.

The doriot arm design reduces contamination by keeping the tubing off the floor.

**‘H-C’ System**
**HANGING DELIVERY**

The hanging tubing H-C model provides a hygienic removable instrument surface in the traditional delivery method. The flexible design can accommodate up to 6 instruments in any order to allow you to configure the instruments to your preference.
Control Systems

Control is Standard

With the control World and Lite models, you benefit from a Control system that retains a great degree of easy to use functions.

Features such as a large graphical display for instrument control with the ability to configure each instrument individually (such as waterspray on for higher speed, but off for lower speed). A range handpiece with specific functions is also included to provide the most efficient use of each instrument.

Ritter Control World and Lite systems also include the ability to uniquely preset preferences for up to 4 users for individual chair working positions and instrument speed settings.

Total control

The comprehensive control panel of the Contact models provides the dental operator with the fullest range of instrument control functions.

- Integrated x-ray viewer
- Truely programmable chair positions for each step of the procedure
- Buttons F1-F4 reserved for special functions, e.g. for camera on by foot control or prophylaxis
- * Star button to program up to 4 different users
- Alphanumeric display

Contact World/Lite system foot control

- Chair backrest down*
  + Direction select for lowspeed
  + Enthemode for scaler
- Chair up*
  + Instrument speed control with water spray
- Chair backrest up*
  + Chip air for instruments
- Chair down*
  + Instrument speed control without water spray
- * when all instruments are in their holders
- Patient rinse position
- Patient exit position

SIMPLIFIED COMPLEXITY

No multiple function controls...Ritter systems keep each button serving a single purpose!

The result is that Ritter Control systems are intuitive and easy to operate even in the middle of a complicated dental procedure.
Safety First

Ritter Contact Line systems are designed for quick and effective infection control.

All the critical components are designed for easy disinfection for all surfaces through such features as removable, smooth surfaces and clean edges.

All the critical components are designed to easily disinfect all surfaces using the integrated waterline flush protocol with its easily accessible suction tubing set.

Hygiene

An optional 180° swivable cuspidor is available. Traditionally dirty areas such as the cuspidor are designed to be easily removed to allow proper cleaning and thermal disinfection.

The Ritter H-C and C table models incorporate an easily removable holder top cover to promote effective disinfection.

Ritter dental lights provide removable handles for surface disinfection and sterilization.

The assistant station of the Ritter Contact Line is designed to prevent the suction tubings from touching the floor.

All control surfaces are smooth with flat surfaces to promote the use of barrier protection.

The optional Ritter ABS water bottle system allows regular water disinfection.
As you examine the Ritter Contact Series, you will start to appreciate the many integral features that make an efficient and practical dental practice possible and environmentally friendly.

Relaxation for your patients
Correct Placement for Treatment

The Ritter Contact line chairs incorporate a range of features to promote correct positioning for any patient size or treatment requirement.

Ergonomic movement of the contact world chair ensures that the patient is not stretched or squeezed during positioning. The supporting design helps them to remain relaxed even during prolonged treatment.

The Ritter Contact World model is available with optional Tempur® upholstery with a visco-elastic foam that moulds itself around the patient’s body.

Ritter Ergonomics - the advantages for your Dental Team
- Comfortable Patient Positioning
- All items within Easy Reach
- Efficient Disinfection of all unit surfaces
- True Four handed Delivery techniques
- Range of Delivery Models to Suit your Working Style
- Flexible Control with Ritter multi-function Foot Control and Control Consoles
- iF Award for Contact World chair for best design and ergonomics

Design

“An Extra Level of Comfort

The Ritter Contact Lite /Comfort patient chair with double articulated headrest to easily and quickly adjust the head position.

“This main purpose of any Dental System is to facilitate the positioning of the patient with the treatment instruments to maximize the efficiency of the Dental Care!”

Werner Schmitz, CEO Ritter Concept

Designed also for your Dental Assistant

The bi-articulating arm design of the dental assistant element allows a flexible positioning to suit any patient situation.

The assistant station also provides an integrated console to assist the operator by providing control of all major unit functions.

The pivoting high volume suction valve reduces stress on the wrist and prevents the suction line splitting from being twisted.
Flexible Options for Integration

Communication with your patient is now more important than ever.

Being able to discuss treatment with your patient using digital imaging presentations from both x-rays and camera images can be an essential part for providing information for both treatment planning and patient education. Ritter Contact Line systems can be seamlessly integrated with a range of Multimedia to provide the complete system for patient interaction.

OPTIONS INCLUDE:
- Integrated Multimedia display
- Integrated intra-oral Camera system
- Complete system with both display and camera.

INTRA-ORAL CAMERA
- High resolution 4 image memory
- Variable focal range for a large range of applications
- Uniform illumination that to the multiple LEDs
- Sophisticated lens design with excellent depth of field.

The sealed glass front panel of the TFT display used on Ritter systems allows effective post-procedural disinfection of the surfaces in the same manner as the rest of the dental surgery equipment.

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Designed to Stand the Test of Time

When you look at the Ritter Contact Series, one of the first things you’ll notice is the solid construction of the components and the durability that Ritter systems offer.

Ritter equipment has always had the hard-earned reputation for quality that comes from years of high standards. From the smooth baked enamel finish to the finely engineered internal components, Ritter Contact Line systems are unsurpassed in quality construction.

Quality also means reliability and durability, not just for today but for the extended period of the Ritter system’s working life.

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Format C plus >>
Ritter Format C plus

This is a system that has been successful and approved throughout the world ideally equipped with a Cart. Ritter Format C plus combined with CartLite is available in many different variations – from a simple patient chair up to a fully equipped multimedia based unit.

The instrument section can fit 6 instruments in a very flexible order. The storage system allows removing the instruments ergonomically. The order of the instruments is –mostly– your own choice, because the design of the instrument storage section avoids interdependence between the shapes of the instruments and the instrument holders.

Ritter offers all System Extensions the modern dentists needs:

- **System Extensions**
  - **Dental Lamps**: Ritter StarLite, PlanetLite, MoonLite, SnowLite and SunLite
    - successful dental lamps, reliable and proved
  - **Dental Operator’s Stools**
    - ergonomically designed for best working postures.

Impressive surgical design element with a wide variety of colors. Please select your favorite upholstery color – see Contact-Line upholstery, next page.

Also available as orthodontic version
(without CartLite, assistant’s side with large and small suction, 1 motor, syringe)

- Parallel water unit movable towards the chair, swivel mounted at 90°
- Extreme draft position: 35 cm
- Maximum adjustment: 75 cm
- Instruments ergonomically within reach with a special positioning system
- Available for right handed and left handed people, accessible from dentist and assistant side
- Flexible and movable headrest, also ideal for children
- Can be used for most procedures, even minor surgeries

Ritter’s Dentana assistant’s unit: A 2-hinge instrument arm carries the assistant’s instruments.

The Dentana hydro unit: A single supporting column can adapt the StarLite dental surgery lamp, a large tray support and a panoramic X-ray viewer.

The Dentana can move parallel to the patient’s chair and can be swivelled 90°. Ready for different water cleaning systems.

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Impressive surgical design element with a wide variety of colors. Please select your favorite upholstery color – see Contact-Line upholstery, next page.
Ritter Contact Series - Inclusions and Options

**PATIENT CHAIR**
- Programmable Working Positions
- Safety Switch Assembly
- Articulating Headrest
- Double Articulating Headrest
- Left fixed armrest
- Right side movable armrest
- Seamless Upholstery
- Tempur Visco Elastic Upholstery

**DENTIST TABLE**
- Topflex 3 way Syringe
- 1 ISO-C fibre optic Turbine Line
- 2 ISO-C fibre optic Turbine Lines
- 1 EMF40L fibre optic electric motor
- 2 EMF40L fibre optic electric motors
- 1 NL400 fibre optic brushless motor *
- 2 NL400 fibre optic brushless motors *
- Ritter R-ES 1000L fiber optic scaler
- Full graphic control panel with speed display
- Memory settings for instruments
- Torque Control for electric motor

**ASSISTANT UNIT**
- Topflex 3 way Syringe
- High Velocity Suction Line
- Saliva Ejector Line
- LED Curing Light
- Bi—Articulating Support Arm
- Console for Unit Functions
- Suction Placement Valve

**BASIS UNIT**
- Instrument Tray on bi-articulating arm**
- Removable Porcelain Spittoon Bowl
- Suction Solids Collector
- Configuration - centralised suction
- Configuration - dry suction (amalgam)
- Configuration - Spittoon Bowl Rinse Valve
- ABS Water Bottle System
- Water Heater for Cup Filler
- Integrated TFT monitor display

**OPERATING LIGHT**
- Starlite Dental Light (24,000lux)
- Planetlite Dental Light (27,000lux)
- Alya LED Dental Light
- Removable Fascia for Cleaning
- Removable Handles for Cleaning
- Bi-Articulating Swivel Arm
- Brightness Adjustable

**MISCELLANEOUS**
- Dental Stools Set
- Satellite Services Box

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**NOTE:** All Ritter Contact Lite systems are produced in white panel finish.
ULTRA Performance A& E >>
Dental Patient Chair

- modern designed ergonomic patient chair
- smooth "Soft Entrance" function (seat descends when weighted)
- synchronized chair with "Trendelenburg" function
- headrest double articulated
- headrest and backrest upholstery without step - one line
- extra large special shaped backrest and comfort upholstery:
  - optimized support for the shoulder and dorsal
  - perfect for longer treatments
  - distance between the backrest and seat upholstery
  - minimized for perfect support of the back, regardless there is enough space for the doctor’s knee
- seat upholstery well formed to guide the optimal seat position for buttocks and legs
- long seat upholstery for long legs
- seamless upholstery very comfortable for long treatments, available in 12 colors
- maintenance free electric chair DC Motor
- chair movement by two electric motors:
  - one to lift the seat
  - one for the backrest
- power for max. 185 kg
- chair can be controlled by:
  - dentist control panel
  - and assistant control panel
  - and foot controller
- 3 free programmable chair programs:
  - plus exit program
  - plus rinsing position
  - auto return function
  - emergency position
- several safety switches, e.g. for movable spittoon
- left armrest and rotating right armrest
- strong small metal ground plate for perfect stability of the chair, therefore enough space for doctor’s knee
- base plate free height adjustable for unequal floor
- chair construction powder coated
- 3 different connection points for air, water and electricity
- max height of treatment position 825 mm
- min chair entrance/treatment position 420 mm

Made by Ritter Germany
German Quality and Design
The Ritter ULTRA Performance is a product “Made by Ritter Germany” with reliable high quality components and materials.

Patient chair
- modern designed ergonomic patient chair
- controlled by dentist and assistant control panel and foot controller
- electric chair (driven by 24V DC Motor)
- chair movement by two electric motors: one to lift the seat and another for the back rest
- 4 chair programs including “back to last position” when patient was in spittoon position
- auto return function
- safety switches
- synchronization between headrest and seat (Haldenleburg)
- left armrest and rotating right armrest
- double articulated headrest
- extra large back seat and comfort upholstery, perfect for longer treatments and tall patients
- Seat with excellent guide for positioning buttocks and legs
- special shaped headrest for shoulder and dorsal
- no gap between headrest and headrest, headrest specially designed for free positioning of patient’s head
- headrest double articulated
- smooth “soft-entrance” function
- seamless upholstery available in 12 colors
- strong metal ground plate for good stability of the unit

Assistant Element
- assistant touch pad allows control for chair movement, cup filler and bowl rinsing
- saliva ejector and high surgical suction lines
- Cup filler with timer function
- 2 electric main plumbing entrance valves for air and water
- one additional free holder
- Option: 3-way or 6-way syringe, curing light

LED Operating Light
- high intensity LED operating light
- silent, no fan
- removable handles for sterilization
- rotation with two axis movement
- daylight color temperature 5,000 K
- level of brightness 3,000 - 30,000 lux
- maximum light intensity 50,000 lux

Water Unit / Cuspidor
- state of the art designed floor mounted water unit
- easy access panel for easy maintenance
- pressure regulator for cup filler and spittoon
- public water connection and Aqua Bottle System
- rotating porcelain cuspidor, easy to clean
- removable spittoon components for easy cleaning
- timed cup filling and spittoon flush
- autoclavable water spouts

Dentist Element
- advanced control panel allows dentist to control functions of all instruments, Scalar, light, cuspidor and the programming of the dental chair
- program for flushing instrument lines
- integrated x-ray viewer
- All outlets are fiber optic
- hygienic, disinfectable control panel
- pneumatic armbrake sensor controlled
- Dentist element with free positioning and control of 5 instruments
- 6 instrument holders, Version 5 only 5
- basic equipped with 1 fibre optic turbine outlet, 1 Micromotor
- 3-way syringes (6-way syringes optional)
- smooth one-hand operation with ergonomic handle and integrated sensor for pneumatic brake
- individual water regulation for turbine, Micromotor and Scaler
- Instrument tray
- chip blower for rotating instruments
- free relay connection for door opener with console button

Ritter Foot Controller
The approved Ritter Multi-function controller:
- control of all positions of patient’s chair
- control of instruments with easy change between without irrigation
- chip blower function

Alterations and changes due to technical reasons reserved. © Ritter 2012
German Quality and Design
The Ritter ULTRA Performance is a product "Made by Ritter Germany" with reliable high-quality components and materials.

Patient chair
- modern designed ergonomic patient chair
- controlled by dentist and assistant control panel and foot controller
- electric chair (driven by 24V DC Motor)
- chair movement by two electric motors, one to lift the seat and another for the back rest
- 3 chair programs plus exit- and rinsing position
- safety switch for movable spittoon
- synchronization between backrest and seat  (Trendelenburg)
- left armrest and rotating right armrest
- double articulated headrest
- extra large back seat and comfort upholstery, perfect for longer treatments and tall patients
- seat with excellent guide for positioning buttocks and legs
- special shaped backrest for shoulder and dorsal
- no gap between headrest and backrest, headrest specially designed for free positioning of patients head
- headrest double articulated
- smooth "soft-entrance" function
- seamless upholstery available in 12 colors
- strong metal ground plate for perfect stability of the unit

Multi-Function Foot Controller
- control of all moving directions of patient’s chair
- control of instruments with easy change between with/without irrigation
- chip blower function

Assistant Element
- assistant touch pad allows control for chair movement, cup filler and bowl rinsing
- saliva ejector and high surgical suction lines
- cup filler with timer function
- 2 main plumbing entrance valves for air and water
- two additional free holders
- option: 3-way syringe, curing light

Ritter Operating Light
- on/off switch
- perfect illumination because of extra long lamp arms
- lamp burst protection
- hand grids autoclavable
- two intensities 8000 and 25000 lux

Dentist Element
- advanced control panel allows dentist to control functions of all instruments, scaler, light, cuspidor, spittoon and the programming of the dental chair
- integrated x-ray viewer
- all outlets optionally with fiber optic
- hygienic, disinfectable control panel
- pneumatic armbrake controlled by hand switch
- Dentist element with free positioning and control of 6 instruments
- basic equipped with 3 air outlets and 3-way syringe
- one-hand operation with ergonomic handle and integrated hand switch for pneumatic brake
- individual water regulation for each turbine and 3-way syringe
- Instrument tray
- chip blower for rotating instruments

Water Unit / Cuspidor
- state of the art designed floor mounted water unit
- easy access panel for easy maintenance
- pressure regulator for cup filler and spittoon
- public water connection and Bottle System
- rotating porcelain cuspidor, easy to clean
- removable spittoon components for easy cleaning
- timed cup filling and spittoon flush
- autoclavable water spouts

Made by Ritter Germany
SUPERIOR & EXCELLENCE >>

BASIC
Unit basic equipment
- dentist element swinging hoses (option: hanging hoses)
- water unit, chair mounted
- assistant element
- rotating porcelain cuspidor bowl
- operating light
- synchronized chair movement
- public water or aqua bottle system
- luxury multi-function foot controller
- 1 stool
- upholstery available in 8 colors

Chair
- electric chair (driven by 24V motor)
- 5 chair programs: 3 free programmable positions, 1 rinsing position and 1 exit position
- auto return function
- security switch
- seat tilting synchronized with inclination of backrest
- left armrest, movable right armrest, both in black
- double articulated headrest
- seamless upholstery

Multi-Function Foot Controller
- controller for chair movement
- speed controller for rotating instruments
- pedal for waterspray
- button for chip blower
- button for cup filling
- large foot bow for easy repositioning

Operating Light
- on/off switch
- 6000 / 25,000 Lux
- low and high light intensity
- lamp burst protection
- autoclavable hand grips

Stool
- backrest with fixed position or dynamic movement
- five legs, chromed
- 5 dual-casters for extra safety
- symmetrical backrest
- seat height 47 - 60 cm

Assistant Element
- movable assistant element
- assistant touch pad control for:
  - chair movement
  - heating for cup filler
  - cup filler
  - bowl rinsing
  - small saliva ejector
  - high-volume ejector
  - one additional free holder
  - three-way syringe

Dentist Element
- swinging hoses
- three midwest outlets for turbine and/or air motor
- one free existing position for additional outlet
- three-way syringe
- double size x-ray film viewer
- air pressure indicator
- dentist arm with air brake
- additional brake for smooth arm movement
- dentist touch pad control for chair and unit functions
- autoclavable rubber pad for instruments
- single tray support
- additional double tray support

Dentist Touch Panel
- heating for cup filler
- cup filler
- bowl rinsing
- operating light on/off
- x-ray viewer on/off
- fibre optic on/off
- (if option is chosen)

Cuspidor
- porcelain cuspidor
- rotating cuspidor
- option: flush
- cup filling
- autoclavable water taps
- easy cleaning and disinfecting

Water Unit
- aqua bottle system 600 ml
- switch between public water system and aqua bottle system
- additional filter for suction hoses
- prepared for venturi air suction

The German Experts

The German Experts
EXCELLENCE

**Unit basic equipment**
- Dentist element: hanging hoses
- Water unit: chair mounted
- Assistant element
- Rotating porcelain cuspidor bowl
- Operating light
- Electrical patient chair
- Security switch
- Public water or aqua bottle system
- 1 stool
- Upholstery available in 8 colors

**Chair**
- Electrical chair (driven by 24V motor)
- 4 chair programs: 3 free programmable positions, 1 exit position
- Chair foot controller
- Security switch
- Black single armrest
- Double articulated headrest
- Seamless upholstery

**Water Unit**
- Aqua bottle system 600 ml
- Switch between public water system and aqua bottle system
- Additional filter for suction hoses
- Prepared for venturi air suction

**Foot Controller**
- Chair built in controller for chair movement
- Speed controller for rotating instruments
- Switch for additional water spray (Midwest)
- Button for chip blower (Midwest)

**Operating Light**
- On/off switch
- Low and high light intensity
- Lamp burst protection

**Dentist Touch Panel**
- Memory set button
- X-ray viewer on/off
- Operating lamp on/off
- Memory call button
- Heating for cup filler
- Cup filler
- Bowl flush

**Dentist Element**
- Hanging outlets system
- Three Midwest outlets for turbine and/or air motor
- Three-way syringe
- X-ray film viewer
- Air pressure indicator
- Dentist arm with air brake
- Dentist touch pad control for chair and unit functions
- Double tray support

**Assistant Element**
- Movable assistant element
- Assistant touch pad control for chair movements
- Heating for cup filler
- Cup filler
- Bowl rinsing
- Small saliva ejector
- High volume ejector
- Two additional free holders

**Cuspidor**
- Porcelain cuspidor
- Rotating cuspidor
- Bowl rinsing
- Cup filling
- Autoclavable water taps
- Easy cleaning and disinfecting

**Stool**
- Backrest movable approx. 150°
- Five legs chromed
- 5 dual-casters for extra safety
- Asymmetrical backrest
- Seat height 47 - 60 cm

The German Experts
Options SUPERIOR

- dentist element swinging hoses:
  - sixth swinging lever for non-rotating instruments
  - swinging lever stop mechanism for relaxed treatment
- dentist element hanging hoses:
  - one additional outlet
- ultrasonic scaler
- outlet (Midwest Fibre Optic or Borden)
- fibre optic for max. 3 drilling instruments
- panoramic x-ray viewer
- electric micromotor kit: Fibre Optic
- brushless electric micromotor kit: Fibre Optic, controllability by multi-function foot controller
- pressure adjustment for spittoon rinsing
- pressure adjustment for cup filling
- sensor switch for operating light
- different kind of preparations for various suction systems
- place selection valve

Ritter Cart Basic / Version C with Cart

- light adjustable cart on four movable castors, flexible
- dentist element as stand-alone cart
  - with 6 inserts for different kind of instruments
  - up to 4 rotating instruments
  - 1 x syringe
  - 1 x foot, e.g. curing light
- angle of instruments holder free adjustable
- ultrasonic scaler, optional
- outlets (Borden, Midwest / Fibre Optic)
- fibre optic for max. 3 drilling instruments
- big x-ray viewer, optional panoramic
- blockade of chair movement if instrument is in use
- different kind of preparations for various suction systems
- place selection valve
- big tray support with placement area

Options EXCELLENCE

- dentist element hanging hoses:
  - one additional outlet
- dentist element swinging hoses:
  - one additional lever for non-rotating instruments
- ultrasonic scaler
- outlets (Midwest Fibre Optic or Borden)
- fibre optic for max. 3 drilling instruments
- panoramic x-ray viewer
- pressure adjustment for spittoon rinsing
- pressure adjustment for cup filling
- blockade of chair movement if instrument is in use
- different kind of preparations for various suction systems
- place selection valve

Upholstery Colours for SUPERIOR / EXCELLENCE

- Upholstery Colours

- All detailed technical information is described in the User and Installation Manual.
Compressors and Suction >>
**Compressors**

**Ritter dental compressors designed for maximum reliability**

Based on worldwide experience, Ritter’s extensive range of products covers any air requirements in a modern dental clinic - no matter whether the clinic has one or more dental units.

Ritter Clean Oil-less Compressors supply 100% oil-free air to the dental office environment. Ritter guarantees the clean, dry air you expect from a high performance drying system.

Filters for sterile air and medical air are available. Ritter actually offers one of the largest dental compressors range from 0,5 HP to 10 HP. The compressors are designed for heavy duty cycles. Silenced versions are available, versions without acoustic covers have duty cycles of up to 100%.

We’re focused entirely on your needs as a dental professional:

- High reliability and low maintenance
- many different models available

**Suction**

**Dental suction units with or without separation**

Ritter is glad to introduce the new air ring aspiration range for dental use. The model range is composed by basic suction units, suction units with separation and versions in soundproofed cabinets. Ritter suction units are reliable products for professional dental use.

The high quality of the dental suction pumps provides for an extensive operating life.

The Ritter Vacuum Air series consists of 4 models from 0,37 kW to 1,5 kW.

Models with separation are equipped with an electronic board for automatic container discharge.

We’re focused entirely on your needs as a dental professional:

- High reliability and low maintenance
- many different models available

Discover the new Ritter aspiration range!
Compressors and Suction >>

Basic
Based on worldwide experience, Ritter extensive range of products covers any air requirement in a modern dental clinic - no matter whether the clinic has one or more dental units. Ritter’s clean oil-less Compressors supply 100% oil-free air to the dental office environment. Ritter guarantees the clean, dry air you expect from a high performance drying system.

Filters for steril air and medical air are available. Ritter actually offers one of the largest dental Compressor’s range from 0,75 HP to 4 HP.

The Compressors are designed for heavy duty cycle. Silence versions are available in cabinets.

Advantages of RITTER Basic Air Compressors

- Oil-less and quite silent
- Maintenance Free
- Pressure adjustable
- Safe operating
- Auto stop and restart
- Air tank internal surface epoxy treatment
- Normal working time is min. 20,000 hours without maintenance
- Thermally protected

Difference to European air compressors

- Lower noise level
- More compact layout, smart design
- More competitive price

Discover the new Ritter Power System: Suction and Compressor in one metal cabinet:

**2in1**

**Technical specification**

**Power System RA PS/1**

- Power 1.1 KW
- Noise 55 db
- Dimension (LxWxH) 720x615x1060 mm
- Net weight 88 Kg
- Gross weight 110 Kg

**Suction**

- Power Supply 110/220V AC
- Frequency 50/60Hz
- Input Power 1200VA
- Fuse BGXP 5x20/8A (Delay)
- Dimension (LxWxH) 600x420x660
- Negative Pressure -100Pa
- Pump Flow 60L/min
- Rotation Speed 2800rpm
- Max. Flow 145m³/h
- Pressure 120KPa
- Noise ≤60dB(A)

Ritter is glad to introduce the new air ring aspiration range for dental use. The model range is composed by basic Suction Units with separation and version in soundproofed cabinets. Ritter Suction Units are reliable products for professional dental use.

The high quality of the dental suction pumps provides for an extensive operating life.

Models with separation are equipped with an electronic board for automatic container discharge.

We’re focused entirely on your needs as a dental professional:

- High reliability and low maintenance
- Available as Power System - two in one!
**Ritter CleanTec Standards EN-13060**

**AB18 / AB23**

The Ritter Autoclave CleanTec is the most effective sterilization method, giving you fast sterilization and drying time for your instruments.

The stand alone Ritter CleanTec works with a fractionated Vacuum, using a high-performance Double-stage Vacuum pump, and is available in chamber size from 18 to 23 liters.

Ritter CleanTec was created to satisfy the needs of customers who demand:
- safety
- reliability
- simplicity
- all in one sterilization instrument

**Sterilizable products:**
- solid instruments
- hollow instruments
- wrapped instruments
- porous loads

**Ritter CleanTec AS18 / AS23**

Same features and appearance as above but in Class S.

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**Autoclaves High**

**Complete Graphic Cycles of Sterilization:**

- **B**
  - Class B
  - 2 Internal watertanks (fresh water / waste water)
  - Test-Programms Helix / Vacuum
  - Kind of vacuums Fractionated
  - Power consumption 2400 Watt

- **S**
  - Class S
  - 2 Internal watertanks (fresh water / waste water)
  - Test-Programms Pre- and post vacuum
  - Kind of vacuums Pre- and post vacuum
  - Power consumption 2400 Watt

---

**Motor-operated closure**

- with triple-protection, guarantees a total safety, greater ease of handling and a reliable self regulation of the hatch

**Connection to STS Data logger system**

- It is possible to store the data on a PC

**Stainless steel chamber**

- Made of thick one-piece moulded steel

**Straight TIP:**

- Ritter recommends the use of ultrasonic devices as pre-cleaning process, in order to remove abrasive contamination and oil.
Autoclaves Basic >>

BASIC
Ritter PureTec II
PB 18 + PB 23

The PureTec II is available with an 18 to 23 liter chamber size and is a “stand-alone” autoclave with built-in water storage tank. It works with a fractionated pre- and post vacuum and satisfies the requirements to “Class B+N” autoclaves.

The deep vacuum is created by a high performance double stage vacuum pump. The deep post-vacuum ensures optimal drying of wrapped materials and large quantities of porous goods as well.

The PureTec II can be connected with the water treatment system to a water source and drain as an option.

A printer for documentation of sterilization is optional available.

Sterilizable Products:
- solid instruments
- hollow instruments
- wrapped instruments
- porous loads

Technical Features
- Voltage power and frequencies: 110V/220V/230V-50/60HZ
- Maximum electric power: 1500W-1800W
- Bacteriological filter: yes
- Maximum pressure: 250kPa (2.5bar)
- Sterilized temperature: 121°C or 134°C
- Max. noise level: <45dB
- Vacuum time(s): One time or three times
- Sterilizer time: ≥ 60 min
- Operation control: Microprocessor
- Conformity: 93/42/EEC, ISO13485, EN-303

Straight TIP:
Ritter recommends the use of ultrasonic devices as pre-cleaning process, in order to remove abrasive contamination and oil.

Autoclaves Basic

Ritter CleanTec AB 80

The first class of sterilization. Ritter CleanTec pulse vacuum autoclave AB 80 is a big-sized automatic high pressure and temperature sterilization equipment which takes pressure steam as medium. It is suitable for sterilizing articles like dressings, utensils, Class N and B cavum equipment, medical catheter that used in surgical, laboratory.

Sterilizable products:
- solid instruments
- hollow instruments
- wrapped instruments
- porous loads

Major capability and characteristics
- Micro-computer control, touch-key.
- Automatic control over the processes of filling water, pulse vacuum, heating, sterilization, steam exhaust and vacuum dryness.
- Pulsant final vacuum drying system ensures the best drying effect of package.
- Built-in steam generator and steam separator, these devices ensure the quality of steam and the outside steam source is not necessary.
- Equipped with instrument, instrument bags, dressing, rubber, user-defined sterilization programs for customer’s choice. Liquid program is available for choice.
- B-D test and vacuum test programs.
- The 0.22μm filter provides sterile air into the chamber preventing a recontamination.
- Temperature, time and pressure dynamic LCD displayed. Process of working dynamic displayed.
- The buzzer alarms when a fault occurred and displayed.
- The buzzer alarms when a cycle is completed.
- Printer is available for optional.
Ritter furniture for modern dental surgery offers the highest quality in finish and materials:

- no welding through the use of rivets
- there are compartments inside the drawers to display your precious working tools in order
- nice colour matching, delicate and technological, to accompany every day work
- there are compartments inside the drawers to display your precious working tools in order

Ritter Standard Composition:
This cabinet is available with ceramic sink at surface level, long lever chrome mixer tap, electromagnetic sink control with foot starting lever for mixing faucets and plastic waste basket.

- 5 DRAWERS CABINETS
- WHEELED 6 DRAWERS CABINETS
- 1 DOOR CABINETS
- DRAWERS WITH PLASTIC INSERTS

Optional automatic knee-touch door opening
X-ray device >>
**Leadex 70**

**Ritter X-Ray Wall mounting System**

With its good looks, simple controls, flawless imaging and competitive price, Leadex offers exactly the features and performance a Dentist needs.

Compatible with standard film and digital imaging receptors, Leadex is designed to provide reliable, razor-sharp X-rays.

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**Xray device**

**Dental X-Ray Leadex 70** - Intraoral X-ray for analog and digital X-ray

**Technical specifications**

<table>
<thead>
<tr>
<th>AC</th>
<th>DC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage:</td>
<td>20; 230 VAC ±10% /-5%</td>
</tr>
<tr>
<td>Frequency:</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>Mains resistance:</td>
<td>0.5 Ohm</td>
</tr>
<tr>
<td>Current:</td>
<td>3.5A; 3.2A</td>
</tr>
<tr>
<td>Fuse:</td>
<td>6,3AF</td>
</tr>
<tr>
<td>Focal spot:</td>
<td>0.7</td>
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<tr>
<td>Connection:</td>
<td>coaxial plug, free rotation in horizontal plane</td>
</tr>
<tr>
<td>High Voltage Potential:</td>
<td>70 kVp ± 10% @ nominal mains voltage</td>
</tr>
<tr>
<td>Anodic Current:</td>
<td>8 mA ± 10% @ nominal mains voltage</td>
</tr>
<tr>
<td>Duty Cycle:</td>
<td>1:32</td>
</tr>
<tr>
<td>Total Filtration:</td>
<td>2.0 mm Al/70 KV</td>
</tr>
<tr>
<td>Half layer value:</td>
<td>2.0 mm Al @ 70 kVp</td>
</tr>
<tr>
<td>Radiation leakage:</td>
<td>&lt; 0.25µGr @ 1 m</td>
</tr>
<tr>
<td>Exposure time:</td>
<td>0.08s-3.2s</td>
</tr>
</tbody>
</table>

**AC/DC all**

**Beam limiting device**

- Output section: round / rectangular
- Focus Skin Distance: 20cm; 30 cm

**Mounting**

- System: Wall /Mobile / Unit mounting
- Extension arms: 41, 82 and 110 cm
- Useful reach: 143 cm with 41 cm ext. arm
- 184 cm with 82 cm ext. arm
- 212 cm with 110 cm ext. arm

**Environmental data**

- Ambient Temperature: from 5° to 40 °C

- Transport and storage Temperature: from -15° to +50 °C

- Relative humidity: from 25% to 75%
Digital portable X-ray System

A new era of intraoral digital x-rays has arrived. The mobile x-ray system offers ease and comfort for your practice.

- Compact Design
- Operation Panel
- Graphic LCD
- Grip Tie

Port-XIII by Ritter is light and compact with rechargeable battery – this allows for ease of shooting and storage. A small Dose of radiation avoids exposure for patients and dentists.

The high performance Tube and HFG makes sharp and clear images. Use with digital sensor as well as chemical film.

Port-XIII by Ritter is a digitally controlled low dose portable X-ray unit. These units are suitable for approved dental offices to be used with film, digital media such as phosphor plates, CCD, CMOS and the all new SUPER CMOS sensors.

INFO:
This device can be used with children and adults.

When coupled with our intra oral sensors and our proprietary TRIANA Dental Imaging Software, image acquisition, image quality and function are unparalleled.

The Ritter Port's robustness, light weight and small size make it well suited in the forensic environment.

Basic Curing lights

- wireless (stand alone version)
- three working modes: Full, Ramping, Pulse
- time setting: 5s, 10s, 15s, 20s
- large capacity battery: A full charge can be used continuously over 200 times with a 10s time setting.
- low standby power consumption with 20 days stand-by time
- constant light intensity:
The solidification effect is stable even if the battery power decreases
- blue light, wave length 420nm-480nm power over 1000mW/cm²

Scaler Tips

Ritter offers a wide range of scaler tips for most of scaler systems, as Satelec/EMS/Mectron/KAU/Sirona for a very reasonable price. Please ask for our current scaler brochure.

Curing Lights

powerful
reliable
flexible

Scaling, periodontics, and endodontics

Portable X-ray

Technical data

- Type: High Frequency Inverter
- Power Output: 180W
- Tube Voltage: 60kV
- Tube Current: 2mA
- Heat Capacity: 8.5KHU
- Anode Type: Stationary
- Anode Angle: 20°
- Focal Spot: 0.8mm
- Exposure Time Set: selectable from 0.01 s to 20s
- Operating Voltage: 22.2 VDC
- Main Body: 2.35kg
- Accessory: 0.6kg
- Main Body (mm): 197x147x145
- Charger (mm): 100x65x35